

Appln. No. 10/648,895

Docket No. 9585-4

Amendment

Reply to Office Action dated March 25, 2005

AMENDMENTS TO THE SPECIFICATION*In the Title:*

~~MULTIFUNCTIONAL LAMP WITH THE ACOUSTIC OPTICAL SIREN
ILLUMINATION DEVICE AND SIREN, HAVING A PULL-ROPE ACTIVATION~~

In the paragraph on page 1, lines 6-7

The present invention relates to a ~~kind-type~~ of hand-held ~~held~~ lamp, and also relates to ~~the~~ ~~a~~ lamp powered by ~~the~~ battery or commercial ~~electric~~ ~~electricity~~.

In the paragraph on page 1, lines 10-12

The purpose of the present invention is to provide ~~a kind of an~~ improved design to this ~~kind~~ type of lamp. Which, ~~and which~~ could provide to the user with ~~a~~ energy saving, ~~savings~~, be easy to take ~~carry~~ and asking ~~enable~~ a user to ask for help by ~~the~~ ~~using~~ a siren.

In the paragraph on page 1, lines 14-20

According to the present invention, it ~~there~~ is provided with a ~~kind-type~~ of lamp, which includes a lamp body with at least three light sources, and siren and a rope ring ~~held by handle~~. The lamp body has an inner chamber with a focus lamp unit chamber disposed at its upper end, a cold cathode lamp unit chamber at the front end of the lamp body and a flash lamp unit chamber at the back end of the lamp body. An electric source circuit is accommodated in the inner chamber of the lamp body and the siren is operable by a hand-held rope. The said light source ~~could~~ can illuminate continuously over two days with the power supplied by the general battery, and also does not need to replace the lamp within 100,000 hours in use, ~~which could~~. The lamp can provide to the user with ~~a~~ energy saving, ~~savings~~, it is easy to take ~~carry~~ and asking ~~can~~ ask for help by ~~use of~~ the siren.

In the paragraphs on page 1, line 22- page 2, line-9

The additional technical features of the present invention are explained in details as follows in combination with the drawings, in which:

The Fig 1 is the side view of the lamp according to the present invention;

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The Fig 2 is the longitudinal sectional view of the lamp shown in Fig 1;

The Fig 3 is the top view of the lamp shown in Fig 1;

The Fig 4 is the bottom view of the lamp shown in Fig 1;

The Fig 5 is the front view of the lamp shown in Fig 1;

The Fig 6 is the back view of the lamp shown in Fig 1;

The Fig 7 is another side view of the lamp shown in Fig 1.

In the paragraphs on page 2, line 11- page 4, line-17

The lamp of the present invention generally includes the lamp body (1) ~~in cubeoid having a rectangular shape~~, a light source (2) ~~being disposed at the upper end in the lamp body~~, a viewfinder surface (3) ~~in having a paraboloid shape~~ and a projecting plate (4) made of glass or other transparent material, ~~the~~. The viewfinder surface (3) and the projecting plate (4) form a focus lamp unit chamber. The projecting plate (4) is generally in ~~the-a~~ paraboloid shape and has ~~the function functions~~ for converging ~~converging~~ the light source. The inner side surface of the said projecting plate (4) is sealed with the end surface within ~~the-a~~ front ring-shape lamp cap (5) which is mounted on the upper end of the lamp body (1). The ~~one~~-One end of the lamp body (1) has ~~cubeoid-an elongated~~ light source (6), and a viewfinder (7) ~~which is generally as a flat surface for reflecting and strengthening the light source, the-and a~~ light-permeating cover (8) ~~is-made of glass or other transparent material, the said light-permeating cover (8) is-being disposed at the front end of the lamp body (1). The light source (6) is preferably a fine and long-life cold cathode fluorescent lamp, which does not need to be replaced. The viewfinder (7) and the light-permeating cover (8) form a cold cathode lamp unit chamber.~~

A flash light cover (10), ~~which is made of the-glass , other transparent material or semi-transparent material, the covers a lamp bulb. The flash light cover (10) has the-a ball body (11) for diffusing the refraction, which could make scatters the refraction of the light source being scattered, and the~~. The flash light cover (10) is disposed at the back end of the light body (1). The flash light cover (10) forms a flash lamp unit chamber with a surface provided underneath the lamp.

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As shown in the Figs, at least three light sources of the light body (1) are lamps which are powered by the electrical source (12) in the light body (1), ~~the~~. The electrical source is connected with ~~the~~ an electrical source circuit (13) in the lamp body (1) through ~~the~~ an electrical line and connected to ~~the~~ an outside socket (15), ~~and~~ the ~~kinetic~~. A kinetic energy switch (14) is connected with the lamp. Obviously, the light source could be powered by battery or by rechargeable battery, the direct electrical source is connected with charger, and the electrical source circuit in the lamp body (1) is for charging. The lamps emit light but do not generate heat, thus making the lamp safe and even suited for little children.

As shown in the Figs, there is a battery gate-hatch at the lower end of the lamp body (1), the said battery gate-hatch (16) is the entrance and exit of the battery, ~~the~~. A contacting metal plate (17) at the upper end of the battery gate-hatch (16) is for turning on the battery. The battery gate-hatch (16) is detachably fixed at the lower end of the lamp body (1).

The lamp body can include a ring made of rubber or other elastic material at the upper and lower ends, the rubber ring making it easy for a user to hold the lamp, and providing shock resistance to the lamp body.

There is a pull switch button (18) at the upper end of the lamp body (1), and a rope (19) held by ~~hand~~ handle is linked at the end of the said pull switch button (18). The said pull switch button (18) is detachably fixed at the upper end of the lamp body (1). The ~~metal~~ elastic ~~Metal deformable~~ plates (20) and (21) are separated while the pull switch button (18) being fixed at the upper end of the lamp body (1), but when the pull switch button (18) is separated from the lamp body (1), the ~~metal~~ elastic ~~deformable~~ plates (20) and (21) are jointed together due to the elasticity of the metal itself, therefor the electric energy is generated to turn on the siren and which leads to the buzzer (9) to sound an alarm. Thus, when the user of the lamp is in ~~the~~ a dangerous situation, the pull switch button (18) of the rope ~~held by hand~~ handle is pulled by the user, then the siren sends the information of asking for help.

In other words, the multi-functional cold cathode lamp of the present invention could be used as flashlight, and is also easy to hold by hand or to load carry in the a person's pocket, ~~the~~. The multi-functional cold cathode lamp of the present invention ~~could be used as the flashlight which~~

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focuses can focus illumination in over a long distance, and illuminates can illuminate in different angles in over a short distance, and sends can send signal light in different frequencies, which,
This is very useful for protecting the lady's women's safety or for the people to travel.

5 ILLUMINATION DEVICE AND SIREN, HAVING A PULL-ROPE
ACTIVATION

FIELD OF THE INVENTION

The present invention relates to a type of hand-held lamp, and also relates to a lamp powered by battery or commercial electricity.

OBJECT OF THE INVENTION

- 10 The purpose of the present invention is to provide an improved design to this type of lamp, and which could provide to the user with energy savings, be easy to carry and enable a user to ask for help by using a siren.

SUMMARY OF THE INVENTION

- 15 According to the present invention, there is provided a type of lamp, which includes a lamp body with at least three light sources, and siren and a rope ring handle. The lamp body has an inner chamber with a focus lamp unit chamber disposed at its upper end, a cold cathode lamp unit chamber at the front end of the lamp body and a flash lamp unit chamber at the back end of the lamp body. An electric source circuit is accommodated in the inner chamber of the lamp body and the siren is operable by a hand-held rope. The light source can illuminate continuously over two days with the power supplied by the general battery, and also 20 does not need to replace the lamp within 100,000 hours in use. The lamp can provide to the user with energy savings, it is easy to carry and can ask for help by use of the siren.

BRIEF DESCRIPTION OF THE DRAWINGS

The additional technical features of the present invention are explained in details as follows in combination with the drawings, in which:

Fig 1 is the side view of the lamp according to the present invention;

Fig 2 is the longitudinal sectional view of the lamp shown in Fig 1;

5 Fig 3 is the top view of the lamp shown in Fig 1;

Fig 4 is the bottom view of the lamp shown in Fig 1;

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Fig 5 is the front view of the lamp shown in Fig 1;

Fig 6 is the back view of the lamp shown in Fig 1;

Fig 7 is another side view of the lamp shown in Fig 1.

10 **DESCRIPTION OF THE PREFERRED EMBODIMENT**

The lamp of the present invention generally includes the lamp body (1) having a rectangular shape, a light source (2) disposed at the upper end in the lamp body, a viewfinder surface (3) having a paraboloid shape and a projecting plate (4) made of glass or other transparent material. The viewfinder surface (3) and the projecting plate (4) form a focus lamp unit chamber. The projecting plate (4) is generally in a paraboloid shape and functions for converging the light. The inner side surface of the projecting plate (4) is sealed with the end surface within a front ring-shape lamp cap (5) which is mounted on the upper end of the lamp body (1). One end of the lamp body (1) has an elongated light source (6), and a viewfinder (7) which is generally a flat surface for reflecting and strengthening the light source, and a light-permeating cover (8) made of glass or other transparent material, the said light-permeating cover (8) being disposed at the front end of the lamp body (1).

15 20 The light source (6) is preferably a fine and long-life cold cathode fluorescent lamp, which does not need to be replaced. The viewfinder (7) and the light-permeating cover (8) form a cold cathode lamp unit chamber.

A flash light cover (10), which is made of glass, other transparent material or semi-transparent material covers a lamp bulb. The flash light cover (10) has a ball body (11) for diffusing the refraction, which scatters the re-fraction of the light source. The flash light cover (10) is disposed at the back end of the light body (1).
5 The flash light cover (10) forms a flash lamp unit chamber with a surface provided underneath the lamp.

As shown in the Figs, at least three light sources of the light body (1) are lamps which are powered by the electrical source (12) in the light body (1). The electrical source is connected with an electrical source circuit (13) in the lamp body (1) through an electrical line and connected to an outside socket (15). A kinetic

energy switch (14) is connected with the lamp. Obviously, the light source could be powered by battery or by rechargeable battery, the direct electrical source is connected with charger, and the electrical source circuit in the lamp body (1) is for charging. The lamps emit light but do not generate heat, thus making the lamp safe and even suited for little children.

As shown in the Figs, there is a battery hatch at the lower end of the lamp body (1), the battery hatch (16) is the entrance and exit of the battery. A contacting metal plate (17) at the upper end of the battery hatch (16) is for turning on the battery. The battery hatch (16) is detachably fixed at the lower end of the lamp body (1).

The lamp body can include a ring made of rubber or other elastic material at the upper and lower ends, the rubber ring making it easy for a user to hold the lamp, and providing shock resistance to the lamp body.

There is a pull switch button (18) at the upper end of the lamp body (1), and a rope (19) handle is linked at the end of the said pull switch button (18). The pull switch button (18) is detachably fixed at the upper end of the lamp body (1). Metal deformable plates (20) and (21) are separated while the pull switch button (18) being fixed at the upper end of the lamp body (1), but when the pull switch button (18) is separated from the lamp body (1), the metal deformable plates (20) and (21) are jointed together due to the elasticity of the metal itself, therefor the electric energy is generated to turn on the siren and which leads to the buzzer (9) to sound an alarm. Thus, when the user of the lamp is in a dangerous situation, the pull switch button (18) of the rope handle is pulled by the user, then the siren sends the information of asking for help.

In other words, the multi-functional cold cathode lamp of the present invention could be used as flashlight, and is also easy to hold by hand or to carry in a person's pocket. The multi-functional cold cathode lamp of the present invention can focus illumination over a long distance, and can illuminate in different angles over a short distance, and can send signal light in different frequencies. This is very useful for protecting women's safety or for people when traveling.